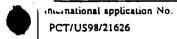
INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/21626

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(6) :A61K 35/16; B01D 21/26; C07K 14/75; C12Q 1/56 US CL :Please See Extra Sheet.			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 210/645, 702, 723, 729, 730, 782, 789; 435/2; 436/177, 178; 530/382, 418, 420, 421			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
Electronic data case consulted during the international sector (international sector)			
·-			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Y	US 5,030,215 A (MORSE et al) 09 July 1991 (09.07.91), see col. 2, 1-5, 7-11		
	lines 18-45, col. 3, line 38 - col. 5, line 56, col. 5, lines 21-43, col.		
	6, lines 8-62.		
v	US 5,226,877 A (EPSTEIN) 13 July 1993 (13.07.93), see col. 2, 1-5, 7-11		
Y	lines 18-29, col. 4, lines 13-23, col. 6, lines 1-61, col. 8, lines 27-		
	66.		
Y,P	US 5,707,331 A (WELLS et al) 13 January 1998 (13.01.98), see 1-5, 7-11		
	col. 2, line 44 - col. 3, line 27, col. 5, line 25 - col. 6, line 4.		
	US 5,585,007 A (ANTANAVICH et al) 17 December 1996 1, 4-5, 10-11		
Y	(17.12.96), see col. 5, lines 16-26, col. 12, line 20 - col. 13, line 6.		
	(17.12.50), 325 331. 5, 21.35 35 35, 35		
Further documents are listed in the continuation of Box C. See patent family annex.			
Special estagories of cited documents:			
A document defining the general state of the art which is not considered to be of particular relevances *X* document of particular relevance; the claimed invention cannot be			
	arties document published on or after the international filing date	"X" document of particular relevance; to considered novel or cannot be considered when the document is taken alone	lered to involve an inventive step
ci	comment which may throw doubts on priority claim(s) or which is ted to establish the publisation date of another emition or other	eve dominate of continuous relevances.	he claimed invention cannot be
special reason (as specified) *O* document referring to an oral disalonars, use, exhibition or other considered to involve an investive step when the document as combined with one or more other such documents, such combination being obvious to a person skilled in the art			
mounts			
the priority date claimed			
Date of the actual completion of the international search 13 JAN 1999			
U9 DECEMBER 1996			
Name and mailing address of the ISA/US Authorized officer			12112
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT SUN UK KIM			Vivo -
Washington, D.C. 20231 Facsimile N . (703) 305-3230 Telephone No. (703) 308-0661			
I areaume			

INTENATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER: US CL :

210/645, 702, 723, 729, 730, 782, 789; 435/2; 436/177, 178; 530/382, 418, 420, 421